

ENERGY DIVISION
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ENERGY DIVISION ACTIVITIES

Tennessee Energy Education Network

- The Tennessee Energy Education Network has received the “Distinguished Service Award” and been recognized as “State of the Year” by the National Energy Education Development Program.
- Tennessee has had six schools to receive national recognition in the NEED Youth Awards for Energy Achievement competition and a nationally recognized “Student Leader of the Year”.
- Annually, TEEN conducts classroom presentations for over 3,000 students, conducts pre-service and in-service workshops for 500 teachers, and distributes over 30,000 free energy education materials to teachers statewide.

Local Government Energy Loan Program

- Provided a total of \$10.7 million in loans to cities, counties and K-12 facilities.
- Provided free energy efficiency technical assistance to 125 local government entities statewide.
- Assisted in adding \$67.4 million in economic benefit to Tennessee local government economies through energy efficiency projects.
- Precluded the release of over 355,354 tons of carbon dioxide, sulfur dioxide and nitrous oxides into the environment.

Small Business Energy Loan Program

- Provided over \$9.1 million in direct loans to Tennessee small businesses for energy efficient upgrades to their buildings, plants and processes.
- Provided free energy efficiency technical assistance to over 600 Tennessee small businesses.

- Assisted in adding over \$82.6 million in economic benefit to Tennessee local government economies through energy efficiency projects financed under the Small Business Energy Loan Program.
- Precluded the release of over 727,000 tons of carbon dioxide, sulfur dioxide and nitrous oxides into the environment.
- Distributed over 225,000 pieces of business-oriented, energy efficiency-related information to Tennessee small businesses.
- Sponsored workshops on energy efficiency building codes attended by over 500 Tennessee codes officials, builders, architects and designers.

Tennessee's Industries of the Future Program

- Tennessee's Industries of the Future program supports the US DOE Industrial Technologies Best Practices.
- Rohm and Haas identified energy savings of 47,000 MMBtu/yr in steam and fuel; 11,000 MWh/yr in electricity; and \$1.5 million annually at their Knoxville plant.
- In 2001, Visteon Corporation's automotive glass plant in Nashville, Tennessee renovated its millwater pumping system. The project's total cost was \$350,000 and the total annual savings were \$280,000, yielding a simple payback of 15 months.

Energy Star

- The Energy Division is the Regional Program Implementer for the Energy Star Program in Tennessee. Working with the Department of General Services, the State of Tennessee has recently authorized the purchase of Energy Star products as a viable alternative to buying standard energy equipment.

ENERGY DIVISION



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TENNESSEE DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT

ENERGY DIVISION

WHAT IS THE PURPOSE OF THE ENERGY DIVISION?

Through grants from the U.S. Department of Energy, the Energy Division provides a broad range of energy efficiency programs to business and industry, state and local governments, and schools. All programs focus on energy efficiency measures and promote energy cost and dollar savings.

HOW DOES THE ENERGY DIVISION BENEFIT TENNESSEE AND PROSPECTIVE BUSINESSES?

The technical and financial assistance programs and services offered by the Energy Division have helped implement projects that reduce energy bills, improve facilities and increase productivity. State energy initiatives seek to ensure adequate, affordable, reliable, flexible, and high-quality fuel supplies. These services are essential in maintaining and enhancing the competitiveness of Tennessee businesses and industry



in an increasingly competitive global economy, ensuring job retention and growth. Energy efficiency efforts undertaken by business and industry also have an impact on the environment and improve air quality in the state.

The Energy Division achieves its goals by:

- Providing financial assistance to small businesses and local governments through the Small Business Energy Loan Program (SBELP) and the Local Government Energy Loan Program (LGELP).
- Promoting energy efficiency and renewable energy technologies & practices.

ENERGY LOAN PROGRAMS

Local Government Energy Loan Program (LGELP)

- Revolving loan available to local government entities to implement energy efficiency projects.
- Maximum loan - \$500,000; 3% interest rate for seven years; economic benefit \$5.71 per dollar borrowed.

Small Business Energy Loan Program (SBELP)

- Revolving loan available to small businesses of less than 300 employees or \$3.5 million in annual gross receipts.
- Loans must be used for the implementation of energy efficiency measures on existing structures.
- Maximum loan - \$100,000; 3% interest rate for up to seven years

ENERGY EFFICIENT PROGRAMS

Industries of the Future

- Develops partnerships with the core energy-intensive industry sectors (agriculture, aluminum, chemicals, forest products, glass, metal casting, mining, petroleum, and steel) to reduce the energy intensity and materials required for manufacturing.
- Tennessee eligible industries account for 97,600 jobs or 19.6% of Tennessee employment (60% of Tennessee's manufacturing economy). One sample industry assessment identified savings of more than \$1.5 million per year for that industry.

Energy Star Program

- Increase consumer awareness for energy efficient products.
- Currently promoting standards in K-12 public schools on a statewide basis. Local governments or schools can borrow up to \$500,000 to install energy efficiency measures in their buildings.
- Energy Star is promoting the use of energy efficient lighting in schools through the Three-Star Program.



Energy Conservation Code with 2002 Amendments. Statewide training workshops on the 2000 IECC will be available during the Spring and Summer of 2004.

RENEWABLE ENERGY TECHNOLOGIES

Million Solar Roofs Program

- Promotes the utilization of solar energy.
- Dedicated to eventual installation of 500 solar energy generation systems by the year 2010.
- Efforts are underway to investigate incentives that can be used to purchase and install solar electric generating equipment.

Clean Cities Program

Advance the use of cars and trucks powered by alternative fuels that reduce the nation's dependence on imported petroleum and improves the state's air quality. Knoxville has received "Clean City" designation, and Nashville is expected to receive their designation in the spring of 2004.



Tennessee Energy Education Network (TEEN)

Promotes energy education in K-12 by distributing materials to teachers, conducting in-service training workshops, classroom presentations, annual energy contests and conferences for students. TEEN is working with the Three-Star Program to encourage schools to conduct energy education activities within their communities.

Public Outreach

Provides small businesses, local governments, and residential energy users with information via:

- Self-help publications that contain current information on energy data and practical energy efficiency techniques and technologies;
- Toll-free energy hotline and information center for energy users seeking energy information; and,
- Direct correspondence that promotes the economic advantages of energy efficiency.

Energy Efficient Building Codes

Local codes jurisdictions have the option of using either the 1992 Model Energy Code or the 2000 International